



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/706,075

11/13/2003

Toshiaki Nakamura

8017-1108

7297

466 7590 04/30/2007  
YOUNG & THOMPSON  
745 SOUTH 23RD STREET  
2ND FLOOR  
ARLINGTON, VA 22202

EXAMINER

BAYAT, ALI

ART UNIT

PAPER NUMBER

2624

MAIL DATE

DELIVERY MODE

04/30/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

**Office Action Summary**

Application No.

10/706,075

Applicant(s)

NAKAMURA, TOSHIAKI

Examiner

Ali Bayat

Art Unit

2624

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 13 November 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 13 November 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date <u>See Continuation Sheet</u> . | 6) <input type="checkbox"/> Other: _____  |

Continuation of Attachment(s) 3). Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :11/13/03;3/22/05;2/17/06;11/08/06.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Slatter et al. (US 6,567,126)

In regard to claim 1, Slatter provides for a document camera (Fig.3, col. 7 lines 42-44) comprising: a script base (Fig.3 element 56, col.7 lines 40-44) for placing thereon a document to be captured (Fig.3 element 54, col.7 lines 42-43); image capture means (Fig.3 element 20, col.7 lines 40-45, note the camera) for capturing the document placed on said script base to generate a moving image signal (Fig.3 element 20, note that the camera, which could be replaced by a video, for generating a moving image signal, see col.3 lines 13-18); and signal output means ( Fig.6 element 51, which the same as the first embodiment. Col.7 lines 15-20) for delivering the moving image signal to the outside (Fig.6 element 51), wherein said image capture means (Fig.3, element 20) has an imager device (Fig.6 element 34, col.9 lines 6-10) and an optical system (Fig.6 element 91, col.9 lines 6-10) integrally incorporated therein (Fig.6 element 84, col.9 lines 19-23); and said image capture means (Fig.3 element 20) is disposed

Art Unit: 2624

above said script base (Fig.3 element 56) at a location away from the center of said script base (Fig.3 element 20, col.7 lines 44-45, note "camera 20, which is mounted atop a post 60 that is clamped 62 to an edge 64 of desk 58").

With regard to claim 2, Slatter provides a light source placed in proximity to said image capture means for illuminating a document on said script base (light source is inherent, in proximity to image capture, because otherwise camera 20 of Fig.3, would not be able to capture an image of a piece of A4 size paper 54 resting on the surface 56 of a desk 58. see col.7 lines 42-44).

As to claims 3 and 8, Slatter provides for an image signal processor (Fig.6 element 38, col.9 lines 13-14) disposed between said image capture means (Fig.6 element 34, col.9 lines 7-9) and said signal output means (Fig.6 element 51, which the same as the first embodiment. Col.7 lines 15-20) for correcting a distortion (col.9 lines 9-12) of an image captured by said imager device (Fig.6 element 34, col.9 lines 7-9).

In regard to claims 4 and 9, Slatter provides for an image signal processor (Fig.6 element 38, col.9 lines 13-14) comprises a keystone distortion correcting function (col.8 lines 24-34) for correcting an optical distortion (col.8 lines 30-34) caused by an inclination (Fig.4 element 114, col. 8 lines 24-25) of the optical axis of said optical system with respect to said script base (Fig.3 element 56).

As to claims 5 and 10 Slatter provides for an image signal processor (Fig.6 element 38, col.9 lines 13-14) further comprises a correction factor adjusting function (col.8 lines 50-55, note the formula) for varying a correction factor in accordance with a change in the focal distance of said optical system (Fig.4 element S2' refers to focal distance,

Art Unit: 2624

col.8 lines 45-55).

In regard to claims 6-7 and 11-12, Slatter provides for an image signal processor (Fig.6 element 38, col.9 lines 13-14) further comprises a distortion correcting function for correcting a distortion which varies with a change in the focal distance (Fig.4 element S2' refers to focal distance, col.8 lines 45-55) of said optical system (col.8 lines 50-55, note lens equation to calculate  $S2=S2' \cdot f2/(f2-S2')$  in addition to said keystone distortion correcting function (col.8 lines 24-34).

#### **Other Cited References**

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. patent 6,160,641 to Kaneko et al. is cited for four-plane reflection type reflective optical unit and scanner optical system.

U.S. patent 6,067,112 to Wellner et al. is cited for interactive desktop display system for automatically adjusting pan and zoom functions in response to user adjustment of a feedback image.

U.S. patent 5,978,551 to Koyama is cited for picture data printing apparatus and print picture data generating apparatus.

U.S. patent 4,984,285 to Kano et al. is cited for method of correcting shading phenomenon in optical character reader.

Art Unit: 2624

### Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ali Bayat whose telephone number is 571-272-7444.

The examiner can normally be reached on M-F 9:00 AM-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Bella can be reached on 571-272-7778. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ali Bayat  
Patent examiner  
Division 2624  
4/19/07

A handwritten signature in black ink, appearing to read "Ali Bayat", with a long horizontal line extending to the right.